

SOUND SYSTEM AND METHOD FOR CAPTURING AND REPRODUCING SOUNDS ORIGINATING FROM A PLURALITY OF SOUND SOURCES

ABSTRACT

A sound system for capturing and reproducing sounds produced by a plurality of sound sources. The system comprises a device for receiving sounds produced by the plurality of sound sources and converting the separately received sounds to a plurality of separate audio signals without mixing the audio signals. The system may further comprise a device for separately storing the plurality of separate audio signals on a recording medium without mixing the audio signals and a device for reading the stored audio signals from the recording medium. The system further includes a reproduction system for recreating the plurality of separate audio signals. Also, the system comprises an amplification network which comprises a plurality of amplifier systems, with one or more separate amplifiers in each amplifier system for separately amplifying each of the separate audio signals. The system also comprises a loudspeaker network which comprises a plurality of loudspeaker systems with one or more separate loudspeakers in each loudspeaker system for separately reproducing the plurality of audio signals. A dynamic controller may be used to control the micro relationships of the components within a signal path and the macro relationships among the separate signal paths. The amplifiers and/or loudspeakers for each signal path may be customized based on the characteristics and complexities of the original sound to be reproduced on each signal path.